

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: December 3, 2000, 19:16:21 ; Search time 727.75 Seconds
(without alignments)
2737.911 Million cell updates/sec

Title: US-09-227-881-2
Perfect score: 5304
Sequence: 1 acctgtgtcagtttaccctc.....cagcacccttcagccagc 5304

Scoring table: IDENTITY-NUC
Gapop 10.0 , Gapext 1.0

Searched: 480022 seqs, 187831343 residues

Total number of hits satisfying chosen parameters: 960044

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_2/gcgdata/geneseq/geneseqn/NA1980.DAT.*
2: /cgn2_2/gcgdata/geneseq/geneseqn/NA1981.DAT.*
3: /cgn2_2/gcgdata/geneseq/geneseqn/NA1982.DAT.*
4: /cgn2_2/gcgdata/geneseq/geneseqn/NA1983.DAT.*
5: /cgn2_2/gcgdata/geneseq/geneseqn/NA1984.DAT.*
6: /cgn2_2/gcgdata/geneseq/geneseqn/NA1985.DAT.*
7: /cgn2_2/gcgdata/geneseq/geneseqn/NA1986.DAT.*
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19: /cgn2_2/gcgdata/geneseq/geneseqn/NA1998.DAT.*
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21: /cgn2_2/gcgdata/geneseq/geneseqn/NA2000.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	5296	99.8	5304	19	VS1364 Human TIGR promote
2	5279.6	99.5	5300	19	VS1362 Human TIGR promote
3	5279.6	99.5	5300	19	VS1363 Human TIGR promote
4	5279.6	99.5	5300	19	VS1366 Human TIGR promote
5	5279.6	99.5	5300	19	VS1366 Human TIGR promote
6	5279.6	99.5	5300	19	VS1367 Human TIGR promote
7	5277	99.5	5299	19	VS1361 Human TIGR promote
8	5253.4	99.0	6169	19	VS1368 Human TIGR upstream
9	1836	34.6	2800	21	Z37968 Human GLCIA gene
C 10	176.4	3.3	283	15	A22 sequence dbcl
C 11	175.2	3.3	162450	21	Retinoblastoma bin
C 12	174.2	3.3	282	18	T62346 Consensus Alu repe

C 13	173.6	3.3	17327	14	O44278
C 14	173.2	3.3	49999	20	Z23900
C 15	172.8	3.3	452	17	POLYMERLOC
C 16	172.8	3.3	106746	21	A10225
C 17	172	3.2	2932	13	O25388
C 18	172	3.2	2932	20	Z32161
C 19	172	3.2	2932	20	Z32161
C 20	172	3.2	43069	21	Z36335
C 21	171.6	3.2	10380	18	T67164
C 22	171.2	3.2	21721	20	X83427
C 23	171.2	3.2	22976	20	X83426
C 24	171	3.2	54548	21	Z45596
C 25	170.8	3.2	2617	21	A23452
C 26	170.4	3.2	3234	16	O92781
C 27	170	3.2	15056	19	V52967
C 28	170	3.2	15056	21	Z99933
C 29	169.6	3.2	2426	18	A06889
C 30	169	3.2	5543	18	T75284
C 31	168.4	3.2	11288	16	O90512
C 32	168.2	3.2	3089	21	Z64958
C 33	167.4	3.2	555	20	V90098
C 34	167.4	3.2	41783	21	A35089
C 35	167.4	3.2	138169	21	A34791
C 36	167.4	3.2	141589	21	A35005
C 37	167.4	3.2	141589	21	A35030
C 38	167.4	3.2	162450	21	Z86967
C 39	166.8	3.1	7849	16	O94109
C 40	166.4	3.1	1601	21	A35191
C 41	166.4	3.1	1601	21	Z46814
C 42	166.4	3.1	1618	12	O10207
C 43	166.4	3.1	1618	14	O46958
C 44	166.4	3.1	1618	21	Z86905
C 45	166.4	3.1	1645	21	Z58659

ALIGNMENTS

RESULT 1	
VS1364	
ID	VS1364 standard; DNA: 5304 BP.
XX	
AC	VS1364;
XX	
DT	27-OCT-1998 (first entry)
XX	
DE	Human TIGR promoter mutant TIGRmt3 DNA.
XX	
KW	TIGR: trabecular meshwork induced glucocorticoid response protein; human;
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX	
OS	Homo sapiens.
OS	Synthetic.
XX	
FH	Key
FT	mutation
FT	Location/Qualifiers
FT	4997..5002
FT	/*tag= a
FT	/note= "Wild-type TG is replaced with TGTGTC"
XX	
PN	W09832850-A1.
XX	
PD	30-JUL-1998.
XX	
PE	09-JAN-1998; 98WO-US00468.
XX	
PR	26-SEP-1997; 97US-0938669.
XX	
PR	28-JAN-1997; 97US-0791154.
XX	
PA	(REGC) UNIV CALIFORNIA.
XX	
PI	Chen H, Chen P, Nguyen TD, Polansky JR;
XX	
DR	WPI; 1998-427946/36.

Serglycin - proteo
Human LOBO homolog
POLYMERLOC
Human PCRA-1 genom
TXA2 receptor gene
Human thromboxane
Human endothelial
Genomic sequence o
Human alpha-N-acet
Human 11p13.1 st
Genomic region con
DNA sequence of th
cDNA encoding huma
Human thymopoietin
Cardiomyoblastic
DNA sequence of co
Human immunogenic
Nucleotide sequenc
CEA clone HindIII-
Membrane-bound pro
EST clone CMI682.
Human adenosine re
Human adenosine re
Human adenosine re
Human adenosine re
Retinoblastoma bin
hML genomic DNA.
Human adenosine re
Interleukin-10 (IL
PHISc insert conta
Human cytokine syn
Human CSF coding
Human Interleukin-

XX Use of TIGR nucleic acid sequences - used for, e.g. developing
 PT products for diagnosis, prognosis and treatment of glaucoma
 XX
 XX Disclosure: Fig 2; 105bp; English.
 XX
 CC This sequence is a trabecular meshwork induced glucocorticoid response
 CC protein (TIGR) promoter mutant, TIGRm3, which is used in a method for
 CC diagnosing glaucoma in a patient. The method involves the detection of
 CC polymorphisms whose presence is predictive of a mutation affecting TIGR
 CC response in the patient and can be diagnostic of glaucoma or steroid
 CC sensitivity. Base substitutions and base additions upstream of and within
 CC TIGR exons can also be used to diagnose glaucoma.
 XX
 SO Sequence 5304 BP; 1482 A; 1152 C; 1237 G; 1433 T; 0 other;

Query Match 99.8%; Score 5296; DB 19; Length 5304;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 5299; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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 DB 1 attcttggttaagtttaactcagggtctatttgaatgaatgataaccatggtgaag 60
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 QY 61 tctataaactgtatagccctccatcggatgtatgtcttggcaggatgaataagatca 120
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 DB 61 tctataaactgtatagccctccatcggatgtatgtcttggcaggatgaataagatca 120
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 DB 121 ggaagaaggatgataccacgttagcaagtgatccaggctgtctgtctattttagtga 180
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 DB 301 gagaagcaaatatgatatgaataaataaacttcccttgttttaatttcaggaataatg 360
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 DB 361 atgaagacccaataatcgaatgaataagaagaacagctcagaataaagaatgttccaaatgg 420
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 DB 421 taattaaatattgttctctctggaagaagacatccatgtgagcttgatggaataatggaa 480
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 DB 481 aaacgctcaaaagcaatgatacgaatcccaagtgatattattttaaataaaccagat 540
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Db	5161	ccccccgtgtacaagccccccacagctacgttgcacactctgtctcccccattgaag	5220
Qy	5221	gtctgccccccagtataataaacctctctgtgagctcggtgcaatgacagaagccac	5280
Db	5221	gtctgccccccagtataataaacctctctgtgagctcggtgcaatgacagaagccac	5280
Qy	5281	catccagcacctctcagcacagc	5304
Db	5281	catccagcacctctcagcacagc	5304

RESULT	2
ID	V51362
XX	V51362 standard; DNA: 5300 BP.
AC	V51362;
DT	27-OCT-1998 (first entry)
DE	Human TIGR promoter mutant TIGRmt1 DNA.
XX	TIGR: trabecular meshwork induced glucocorticoid response protein; human;
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX	Homo sapiens.
OS	Synthetic.
XX	
FH	Key
FT	Location/Qualifiers
FT	4337
FT	/*tag= a
XX	/note= "Wild type C is replaced by G"
PN	MO9832850-A1.
PD	30-JUL-1998.
XX	
PF	09-JAN-1998; 98WO-US00468.
XX	
PR	26-SEP-1997; 97US-0938669.
PR	28-JAN-1997; 97US-0791154.
PA	(REGC) UNIV CALIFORNIA.
PI	Chen H, Chen P, Nguyen TD, Polansky JR;
DR	WPI: 1998-427946/36.
PT	Use of TIR nucleic acid sequences - used for, e.g. developing
PS	products for diagnosis, prognosis and treatment of glaucoma
XX	
PS	Disclosure: Fig 2: 105pp; English.
XX	
CC	This sequence is a trabecular meshwork induced glucocorticoid response
CC	protein (TIGR) promoter mutant, TIGRmt1, which is used in a method for
CC	diagnosing glaucoma in a patient. The method involves the detection of
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR
CC	response in the patient and can be diagnostic of glaucoma or steroid
CC	sensitivity. Base substitutions and base additions upstream of and within
CC	TIGR exons can also be used to diagnose glaucoma.
SO	Sequence 5300 BP: 1482 A; 1151 C; 1236 G; 1431 T; 0 other:

[illegible]

Oy	61	tcataataactgataagcctccatcttgagatgtaatgctcttgccagagataaagaatca	120
Db	61	tccataataactgataagcctccatcttgagatgtaatgctcttgccagagataaagaatca	120
Oy	121	ggaagaagagatgccagcttaagccaagagctccagagctgtgctcctcttatttaatga	180
Db	121	ggaagaagagagatgccagcttaagccaagagctccagagagctgtgctcctcttatttaatga	180
Oy	181	cagaatgtgctctcgbacagagagctattctctcagagaaacatcacatcaataatgttaaac	240
Db	181	cagaatgtgctctcgbacagagagctattctctcagagaaacatcacatcaataatgttaaac	240
Oy	241	catcaaacacagagagcttaagaaacagaaatgaatgtgacatctgtcccaagagaaatgcag	300
Db	241	catcaaacacagagagcttaagaaacagaaatgaatgtgacatctgtcccaagagaaatgcag	300
Oy	301	gagagcacaataatgataaataaactcttcctctgtcttcttaattccagagaaaatg	360
Db	301	gagagcacaataatgataaataaactcttcctctgtcttcttaattccagagaaaatg	360
Oy	361	atgagagcacaataatcaatgaataagaaacacgctccagaaaaaagatgtttcccaatg	420
Db	361	atgagagcacaataatcaatgaataagaaacacgctccagaaaaaagatgtttcccaatg	420
Oy	421	taattaagatattgtcttccttgaggaaagacatccatcagtgtgaatgagaaatgaggaa	480
Db	421	taattaagatattgtcttccttgaggaaagacatccatcagtgtgaatgagaaatgaggaa	480
Oy	481	aaacagtcacaagaacgtatctgataccaaatcccaagaggtatatttttaaaaccagat	540
Db	481	aaacagtcacaagaacgtatctgataccaaatcccaagaggtatatttttaaaaccagat	540
Oy	541	ggcaccactcvgggaagcagaatctcaggaaggtcatgtttaagcaaaagacatacaataac	600
Db	541	ggcaccactcvgggaagcagaatctcaggaaggtcatgtttaagcaaaagacatacaataac	600
Oy	601	agcaaaatcaaaaatctccgcaaatgcagagaaatctggagactvggaaagcttcataac	660
Db	601	agcaaaatcaaaaatctccgcaaatgcagagaaatctggagactvggaaagcttcataac	660
Oy	661	agtgataagagcagttgacatgtttgcacaacatcccccgtctatccagggaaacaaaa	720
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Oy	721	atcgacccgggctaagccctggaacttccaaaggaataatgaaaaaacggaagcaaaaacaa	780
Db	721	atcgacccgggctaagccctggaacttccaaaggaataatgaaaaaacggaagcaaaaacaa	780
Oy	781	gacatggtctaaagagcaaaccaagaacatctgtagaccttcaaaagcagatgcccccaaga	840
Db	781	gacatggtctaaagagcaaaccaagaacatctgtagaccttcaaaagcagatgcccccaaga	840
Oy	841	gggagccctgagacattgaccttaagaaagggccagtttcttaaggaatcctaagaactc	900
Db	841	gggagccctgagacattgaccttaagaaagggccagtttcttaaggaatcctaagaactc	900
Oy	901	ctgaaagatcatgaaattttaacattttaagataaacaataatgagcatgataacag	960
Db	901	ctgaaagatcatgaaattttaacattttaagataaacaataatgagcatgataacag	960
Oy	961	cttgaagacatggtctccaaattttaaaagtcagacatacaagataacgtgtcccaagctcc	1020
Db	961	cttgaagacatggtctccaaattttaaaagtcagacatacaagataacgtgtcccaagctcc	1020
Oy	1021	ggataaggtcagaaatcattttgaaaatcaacgtgtgtcccaacttaattttcagaatgac	1080
Db	1021	ggataaggtcagaaatcattttgaaaatcaacgtgtgtcccaacttaattttcagaatgac	1080
Oy	1081	tgtcaatgccccttcaacaaagcccgagatgtgtcttgaccttaacaaacttcaaacccaa	1140
Db	1081	tgtcaatgccccttcaacaaagcccgagatgtgtcttgaccttaacaaacttcaaacccaa	1140
Oy	1141	gtgagctcaaaccaatgtaaacgtgtcatctcagtagtcccatatacaaatgccaactccc	1200

Db	1141	gtgcctcaaccatgtttaacgtgccaatctcagttggtcccttacaatgtccacctccc	1200
Qy	1201	tgtgcagcccaatcccgctccacagaaagtctcccccactctagactctgtcatcaagatgt	1260
Db	1201	tgtgcagcccaatcccgctccacagaaagtctcccccactctagactctgtcatcaagatgt	1260
Qy	1261	tacagccagaagctccgtgtgaagggtgaagggtcctgtcttacacctactgtatgtctaac	1320
Db	1261	tacagccagaagctccgtgtgaagggtgaagggtcctgtcttacacctactgtatgtctaac	1320
Qy	1321	acctgaagctcaactgtgaacctctgtccctccaaagtgtcaaacaaattccctcgtctcaagccccc	1380
Db	1321	acctgaagctcaactgtgaacctctgtccctccaaagtgtcaaacaaattccctcgtctcaagccccc	1380
Qy	1381	cgcgtagctctggaactacacagcgccgaagcccggtcaattcttgtatgtcagtcagagatggg	1440
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Qy	1561	ttaataaaggaataaactgttaabgtgttacttaaaccaacagcggaagaaacagacaaagctgtga	1620
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Db	1861	tgaagccccccggcagaggtcttcctctccagcttggggagccctgcgaagcaccgggtctc	1920
Qy	1921	tgggtgtctcttgggaacacctgcgcagccggtgcacacgtgtgttttttttttttttttttttttt	1980
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Qy	1981	gaacccgtgtccttcacattctgtgtgactcgtttcatatccagggcatctcatctgaacaatt	2040
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Qy	2101	ccctacccctcgtgtgaagtgacagtttctcatatggaagacgtgagaaagaaatataatagcca	2160
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D	b	421	taattaaagatcttgccttccttcggaagaagacccttcacatgtagctctgctcgggaataatgaggaa	480
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D	b	481	aaaagctcaaaaagcatgatactctgataccaaagctgaatactatcttaataaaacacagat	540
O	y	541	ggcatcaactctcgggagagcaagttcagagaagttcatatgtatagcaaaagacataacaataac	600
D	b	541	ggcatcaactctcgggagagcaagttcagagaagttcatatgtatagcaaaagacataacaataac	600
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O	y	901	ctgaaaagatcatgaaatcttaaacacattttaagtaataaacaataatgagatgcaataacg	960
D	b	901	ctgaaaagatcatgaaatcttaaacacattttaagtaataaacaataatgagatgcaataacg	960
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D	b	961	tttaagaacatgggtccccaatttttaagaatcagaagcatacaagaagtaaacggtgccaaatcc	1020
O	y	1021	ggataagctcagaagaatcatctaaagaatacactgtgtcccaatccataactctttcagaatgac	1080
D	b	1021	ggataagctcagaagaatcatctaaagaatacactgtgtcccaatccataactctttcagaatgac	1080
O	y	1081	tgatcatagccctcacaacacagagcccgatgtctgacatcaaacacacatctacaacccaa	1140
D	b	1081	tgatcatagccctcacaacacagagcccgatgtctgacatcaaacacacatctacaacccaa	1140
O	y	1141	gggacctcaaaccaattgtaacggtctacgtctcagataggctcccatataacaaatggcaacctccc	1200
D	b	1141	gggacctcaaaccaattgtaacggtctacgtctcagataggctcccatataacaaatggcaacctccc	1200
O	y	1201	tgctgagcccaatcccgctccacagagagttccccaactctagaactctctgacatcagatgt	1260
D	b	1201	tgctgagcccaatcccgctccacagagagttccccaactctagaactctctgacatcagatgt	1260
O	y	1261	tacagacagaagctccgtgtaggggtctgtgtctatacacctccgtatgtactac	1320
D	b	1261	tacagacagaagctccgtgtaggggtctgtgtctatacacctccgtatgtactac	1320
O	y	1321	acctgagctccatctgcaaacctctgcctcccaagttcaagaactttctctctcagaagctcc	1380
D	b	1321	acctgagctccatctgcaaacctctgcctcccaagttcaagaactttctctctcagaagctcc	1380
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D	b	1381	cgcgtatgcgggacatacagagcgacagcccggtcaattcttcatatgtatagtagagatgg	1440
O	y	1441	gtttacaccaatatagcccggtcgtgtcttgaaactctcgaaactcagatgagatccacacccctc	1500
D	b	1441	gtttacaccaatatagcccggtcgtgtcttgaaactctcgaaactcagatgagatccacacccctc	1500
O	y	1501	agctctctaaagtctcgggataacaggaatgatacagcgcccggtcgaagggtcagatgt	1560

D	b	1501	agccccctaaagtctcgggataacaggaatgatacagcgcccggtcgaagggtcagatgt	1560
O	y	1561	ttaataaaggaataactctgaatgagtttactaaaccaaagaggaacagaaagctgtga	1620
D	b	1561	ttaataaaggaataactctgaatgagtttactaaaccaaagaggaacagaaagctgtga	1620
O	y	1621	taatttcaggagttctcttgagatvggggaatgtgtgcatagactgtgctctgattctccagac	1680
D	b	1621	taatttcaggagttctcttgagatvggggaatgtgtgcatagactgtgctctgattctccagac	1680
O	y	1681	caatgtctcacaacactctctccctccatcccaatttcaagctaagtataacttcat	1740
D	b	1681	caatgtctcacaacactctctccctccatcccaatttcaagctaagtataacttcat	1740
O	y	1741	caacatgtcttctgtgtgaagcctcacatcgtttactgtaaataagagatataaactag	1800
D	b	1741	caacatgtcttctgtgtgaagcctcacatcgtttactgtaaataagagatataaactag	1800
O	y	1801	ttccatttggtggccatctgtgtgtgtgtataagggagagggacataccccaagactcct	1860
D	b	1801	ttccatttggtggccatctgtgtgtgtgtgtataagggagagggacataccccaagactcct	1860
O	y	1861	tgaagcccccggtcagaagaggttccctccagcctcagagcggggagccctctgacaaccccggtcc	1920
D	b	1861	tgaagcccccggtcagaagaggttccctccagcctcagagcggggagccctctgacaaccccggtcc	1920
O	y	1921	tgggtgtccctgaagcaaacctgcagacccgtgcacatgtgtgtttgtatcaactctcag	1980
D	b	1921	tgggtgtccctgaagcaaacctgcagacccgtgcacatgtgtgtttgtatcaactctcag	1980
O	y	1981	ggaccgtgtgcttctcatctctgtgtgacgttcatctcaacagagcatcatctgaacat	2040
D	b	1981	ggaccgtgtgcttctcatctctgtgtgacgttcatctcaacagagcatcatctgaacat	2040
O	y	2041	tattagtaactatatactctgcagaaaccaaagaataatgtgtgaacaaagcagatcacatgc	2100
D	b	2041	tattagtaactatatactctgcagaaaccaaagaataatgtgtgaacaaagcagatcacatgc	2100
O	y	2101	cctacctctgtgtgaggtgtgacagttctcattgaagaacgtgcagaaagaaataataatagcca	2160
D	b	2101	cctacctctgtgtgaggtgtgacagttctcattgaagaacgtgcagaaagaaataataatagcca	2160
O	y	2161	ggcaacttaaacccacagctgtctgaagaagaagaaataaacacactctctgaagaattgtggcc	2220
D	b	2161	ggcaacttaaacccacagctgtctgaagaagaagaaataaacacactctctgaagaattgtggcc	2220
O	y	2221	agcatcccttaacaaagccacactccctcagtcgccccctgtgctctcatcgtgtccggag	2280
D	b	2221	agcatcccttaacaaagccacactccctcagtcgccccctgtgctctcatcgtgtccggag	2280
O	y	2281	cccccaagccagatctctccaagcctctcctctccatacagtcacagcgtgcagctgtgctc	

[illegible]

QY	3721	ggagttgacgcacaaagggcaatcccggttcctttaacgagaaacatctctaag	3780
DB	3721	ggatttagcagcaaaagggcaatcccggttcctttaacgagaaacatctctaag	3780
QY	3781	taagccaaacagttcaagcccttaggtctctgcgcataatgatgtgtttcttga	3840
DB	3781	taagccaaacagttcaagcccttaggtctctgcgcataatgatgtgtttcttga	3840
QY	3841	catctcagcgaatgtcttaactctcgtatctcgaataatgagactagtaaccttgc	3900
DB	3841	catctcagcgaatgtcttaactctcgtatctcgaataatgagactagtaaccttgc	3900
QY	3901	taaacaaacaccocaattgttaaatgctccaagtctcaactctgcaaaccaat	3960
DB	3901	taaacaaacaccocaattgttaaatgctccaagtctcaactctgcaaaccaat	3960
QY	3961	agagatagaatcctttaagagaacatctgtttcccccctctggaagtgagctgc	4020
DB	3961	agagatagaatcctttaagagaacatctgtttcccccctctggaagtgagctgc	4020
QY	4021	agtttggaataatttacttcaagaagttagacacgtctgttgtaataacaata	4080
DB	4021	agtttggaataatttacttcaagaagttagacacgtctgttgtaataacaata	4080
QY	4081	tgctcaagggcaatcattatccaagtggccttaagaattacctctgacagtttg	4140
DB	4081	tgctcaagggcaatcattatccaagtggccttaagaattacctctgacagtttg	4140
QY	4141	ttattggctatgtgcatttgcctttgtttctctcttggtttatataatgtaag	4200
DB	4141	ttattggctatgtgcatttgcctttgtttctctcttggtttatataatgtaag	4200
QY	4201	ggattatnaacctcaatctcagaagaacgtgtgaatttgatagaanaaaatcc	4260
DB	4201	ggattatnaacctcaatctcagaagaacgtgtgaatttgatagaanaaaatcc	4260
QY	4261	tatttttaaccacttctaactaaatttaacatltatccattgcgaatagagcca	4320
DB	4261	tatttttaaccacttctaactaaatttaacatltatccattgcgaatagagcca	4320
QY	4321	ctcaaggggaataaagaatgaactgtgatcttggtaatacgaatgaatacga	4380
DB	4321	ctcaaggggaataaagaatgaactgtgatcttggtaatacgaatgaatacga	4380
QY	4381	ttatactatatacagttgttcgaagtaagctgtaagttaaatcttaactcaaa	4440
DB	4381	ttatactatatacagttgttcgaagtaagctgtaagttaaatcttaactcaaa	4440
QY	4441	ctttgaaattagacctctgcctgagatctgttttaacatlaataaacaagt	4500
DB	4441	ctttgaaattagacctctgcctgagatctgttttaacatlaataaacaagt	4500
QY	4501	attctgataatttgataataatcatatctcatatcatctgttcccttgtaac	4560
DB	4501	attctgataatttgataataatcatatctcatatcatctgttcccttgtaac	4560
QY	4561	ataataattgaaaacatctctctgagaaggtccccaattccacaattgaggt	4620
DB	4561	ataataattgaaaacatctctctgagaaggtccccaattccacaattgaggt	4620
QY	4621	catgcaacacacagagtaagaacatgatttaagaggttaacatctgcatgtg	4680
DB	4621	catgcaacacacagagtaagaacatgatttaagaggttaacatctgcatgtg	4680
QY	4681	tgcaagactgtaaatgaagaagctctcccaagaatacaacagttgtttaag	4740
DB	4681	tgcaagactgtaaatgaagaagctctcccaagaatacaacagttgtttaag	4740
QY	4741	agggggggaatctgcgcctctctataagaaatgcctcccgagagctggta	4800
DB	4741	agggggggaatctgcgcctctctataagaaatgcctcccgagagctggta	4800
QY	4801	cttggttcttgccggtgttatcttctctctgccttgtaagctttaaggaat	4860

[illegible]

RESULT	4
XX	V51365
XX	V51365 standard; DNA; 5300 BP.
XX	V51365;
XX	27-OCT-1998 (first entry)
XX	Human TIGR promoter mutant TIGRmt4 DNA.
XX	TIGR; trabecular meshwork induced glucocorticoid response protein; human
XX	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX	Homo sapiens.
OS	Synthetic.
XX	
XX	Key
FT	Location/Qualifiers
FT	4256
FT	/*lag= a
FT	/note= "Wild-type A is replaced by G"
XX	
PN	W09832850-A1.
XX	
PD	30-JUL-1998.
XX	
PF	09-JAN-1998; 98MO-US00468.
XX	
PR	26-SEP-1997; 97US-0938669.
PR	28-JAN-1997; 97US-0791154.
XX	
PA	(REGC) UNIV CALIFORNIA.
XX	
PI	Chen H, Chen P, Nguyen TD, Polansky JR.
DR	WPI: 1998-427946/36.
XX	

Use of TIGR nucleic acid sequences - used for, e.g. developing

This sequence is a trabecular meshwork induced glucocorticoid response protein (TIGR) promoter mutant, TIGRmt4, which is used in a method for diagnosing glaucoma in a patient. The method involves the detection of polymorphisms whose presence is predictive of a mutation affecting TIGR response in the patient and can be diagnostic of glaucoma or steroid sensitivity. Base substitutions and base additions upstream of and within TIGR exons can also be used to diagnose glaucoma.

Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other;

[illegible]

Db 781 gacatggttaaaagcgaacacgaacatgtgaagccttcaagcagatgccccacga 840
Oy 841 gggagccctgaagcattgtgctcttagaaggccggtttcttaaggatcttaagaacc 900
Db 841 gggagccctgaagcattgtgctcttagaaggccggtttcttaaggatcttaagaacc 900
Oy 901 ttgaagaacacgaattcttaaccattttaaagtaaaacaatatcgatgcaatacag 960
Db 901 ttgaagaacacgaattcttaaccattttaaagtaaaacaatatcgatgcaatacag 960
Oy 961 tttaagacatggtgtcccaattttaaagaatcgaacatacagaataacggtgccagctcc 1020
Db 961 tttaagacatggtgtcccaattttaaagaatcgaacatacagaataacggtgccagctcc 1020
Oy 1021 ggaatggtcagaataatcatatgaataatcagtgtccccatctactttctagaatgac 1080
Db 1021 ggaatggtcagaataatcatatgaataatcagtgtccccatctactttctagaatgac 1080
Oy 1081 ttctaatagccctcacacacagagcccgatgtgtctgaacctacaacacatctacaaccca 1140
Db 1081 ttctaatagccctcacacacagagcccgatgtgtctgaacctacaacacatctacaaccca 1140
Oy 1141 gtgcctcaacacatgtttaacgtgtcatctcaatgaagttcccatcaaatgcccactccc 1200
Db 1141 gtgcctcaacacatgtttaacgtgtcatctcaatgaagttcccatcaaatgcccactccc 1200
Oy 1201 ttgtcagcccatcccgctccacagagatctcccaactccatgaactcttcacatcagatgt 1260
Db 1201 ttgtcagcccatcccgctccacagagatctcccaactccatgaactcttcacatcagatgt 1260
Oy 1261 ttcaagcagaagaatctccgttagaggtctgtctcttaacactacgtttaagctaac 1320
Db 1261 ttcaagcagaagaatctccgttagaggtctgtctcttaacactacgtttaagctaac 1320
Oy 1321 accctgaagctcaactgcaacctctgtccctcccaaggttcaagcaattctctgtctcagctccc 1380
Db 1321 accctgaagctcaactgcaacctctgtccctcccaaggttcaagcaattctctgtctcagctccc 1380
Oy 1381 cgcgttagcgtggactacgaagcgacacgcccggctaattttgtatgtttgtagaagtgg 1440
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Db 1441 gtttcaacatatlagcccgctgtgtctgaacctcctgaacctcagatccacacccccc 1500
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Db 1501 agcctctcaaatgtctggaatttaacagcatgagttcacccgcccggccaaggttcaagtgt 1560
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Db 1561 ttaataaaggaataacttgaattgaatttaactaaaccaacaggaacacaaagcgtgtga 1620
Oy 1621 taatttcagaagatctcttggaatggaatggtgcataagctgcgcgcctcagctccagac 1680
Db 1621 taatttcagaagatctcttggaatggaatggtgcataagctgcgcgcctcagctccagac 1680
Oy 1681 caatgtgtctcatcaactctctctccatccatctcaatttcaaggttaagcatttatt 1740
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Oy 1741 caacatgctttgtgtgaagcccccacatcgttactgaaataagaatatataaactag 1800
Db 1741 caacatgctttgtgtgaagcccccacatcgttactgaaataagaatatataaactag 1800
Oy 1801 ttccatcttgaggcactctgtgtgtgtataggggaaggacatccccagagactcct 1860
Db 1801 ttccatcttgaggcactctgtgtgtgtataggggaaggacatccccagagactcct 1860
Oy 1861 tgaagcccccgcagagatctctctccagctgagggaagccctgcaagcaccggggtcc 1920
Db 1861 tgaagcccccgcagagatctctctccagctgagggaagccctgcaagcaccggggtcc 1920

Oy 1921 ttggtgtcctgaagcaacctgcccagcccggtgccactcgtgttttgttatcactctcag 1980
Db 1921 ttggtgtcctgaagcaacctgcccagcccggtgccactcgtgttttgttatcactctcag 1980
Oy 1981 gacctgtgtcttcttaattctgtgtgaactgttcatcttcaacagatcatgtgaact 2040
Db 1981 gacctgtgtcttcttaattctgtgtgaactgttcatcttcaacagatcatgtgaact 2040
Oy 2041 tattgaatctatatctgtccagacacagagaacaaatrgtgaagcaagcagtcacgtc 2100
Db 2041 tattgaatctatatctgtccagacacagagaacaaatrgtgaagcaagcagtcacgtc 2100
Oy 2101 cctaaccttgtagaggtgacagttctctcaatggaagacgtgcagagaataattacagca 2160
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Db 2221 agcatcctcttaacaaagggccacctctcctagcgcgcctctgtcctcatctgtccggag 2280
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OY	3001	ataaagaacctctgcagctccctcgctctctgtgaaacctctccctcgatctctctgtagaggg	3050
Dp	3001	ataaagaacctctgcagctccctcgctctctgtgaaacctctccctcgatctctctgtagaggg	3050
OY	3061	ggaagcttgagaggggagaggggagagagcttgagagcagcttgagccagagggaggtgagag	3120
Dp	3061	ggaagcttgagaggggagaggggagagagcttgagagcagcttgagccagagggaggtgagag	3120
OY	3121	ggacagagagagggcagagagcttgagcttcacagcttcacatcgatcacgttcagctac	3180
Dp	3121	ggacagagagagggcagagagcttgagcttcacagcttcacatcgatcacgttcagctac	3180
OY	3181	cagagacagagggccacaaatgctctcaggaagagtcacaaatgaaacacagccaaatcttcc	3240
Dp	3181	cagagacagagggccacaaatgctctcaggaagagtcacaaatgaaacacagccaaatcttcc	3240
OY	3241	tcacctaaagcacaatctgcatcttcacaaatgaaagagatcgagagactaaatctgt	3300
Dp	3241	tcacctaaagcacaatctgcatcttcacaaatgaaagagatcgagagactaaatctgt	3300
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Dp	3301	ggtagctcttgccgagatcttcaaaaactgggccaagagcaggtgagaaatgcccagagatcg	3360
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Dp	3361	ttaaactcttccaccctgacacagccacccacgagctcagcagctgacgtgcagacagcg	3420
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Dp	3421	agtgaccctgcagcagggag	3480
OY	3481	acagatctcatcacaagggcagctgggaattgagccacagggagttaagctccacgctgacctcg	3540
Dp	3481	acagatctcatcacaagggcagctgggaattgagccacagggagttaagctccacgctgacctcg	3540
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Dp	3601	ccgatcttcaatactatcttctcccttcacaagcagagtaattctcgagcagaagttcacag	3660
OY	3661	gtagtaacctgagagctgtgaaagatctactagttctcccttgtagaacctcttctcgt	3720
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Dp	3721	ggagcttgacagcacaaagggcaatcccgctctcttcaacaggaagaaacatctctaag	3780
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Dp	3781	taaaagcacaacaggtctaaagcctcaggtctctgcgactataataatggtttttgaaaat	3840
OY	3841	catcttcagcgatgtcttactctcgtatccagaaatagagctgtacccttggctcagctg	3900
Dp	3841	catcttcagcgatgtcttactctcgtatccagaaatagagctgtacccttggctcagctg	3900
OY	3901	taaaacaaacacccaattgtgtaaatgctcagaagtcaaggtctaaatcgacagaacccaat	3960
Dp	3901	taaaacaaacacccaattgtgtaaatgctcagaagtcaaggtctaaatcgacagaacccaat	3960
OY	3961	aagagaatgaatctcttagagcaaacctgttctccactctggaaggtgagctgccaagggc	4020
Dp	3961	aagagaatgaatctcttagagcaaacctgttctccactctggaaggtgagctgccaagggc	4020
OY	4021	agtttggaataatcttagcttacaagaagatggacaactgttgtagttaacaataaagt	4080
Dp	4021	agtttggaataatcttagcttacaagaagatggacaactgttgtagttaacaataaagt	4080
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[illegible]

Db	5157	ccccccctgtgcacaccccccagcctactgtgcccacctctgtcttcccccaagaag	5216
Qy	5221	gctggctcccccagatataataacctctctgagctcgggcatagagccagaagccacc	5280
Db	5217	gctggctcccccagatataataacctctctgagctcgggcatagagccagaagccacc	5276
Qy	5281	catccaggcacctctcagcacagc	5304
Db	5277	catccaggcacctctcagcacagc	5300
RESULT	5		
ID	V51366	standard; DNA: 5300 BP.	
AC	V51366:		
DT	27-OCT-1998	(first entry)	
DE	Human TIGR promoter mutant TIGRmt5 DNA.		
XX	TIGR: trabecular meshwork induced glucocorticoid response protein; human;		
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.		
OS	Homo sapiens.		
XX	Synthetic.		
FT	Key	Location/Qualifiers	
FT	mutation	4262	
FT		/*tag=	a
FT		/note=	"wild-type G is replaced with A"
PN	W09832850-A1.		
PD	30-JUL-1998.		
XX			
PF	09-JAN-1998:	98WO-US00468.	
PR	26-SEP-1997:	97US-0938669.	
PR	28-JAN-1997:	97US-0791154.	
XX			
PA	(RECC) UNIV CALIFORNIA.		
PI	Chen H, Chen P, Nguyen TD, Polansky JR;		
XX			
DR	WPI: 1998-427946/36.		
XX			
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing		
PT	products for diagnosis, prognosis and treatment of glaucoma		
XX			
PS	Disclosure: Fig 2: 105pp; English.		
XX			
CC	This sequence is a trabecular meshwork induced glucocorticoid response		
CC	protein (TIGR) promoter mutant, TIGRmt5, which is used in a method for		
CC	diagnosing glaucoma in a patient. The method involves the detection of		
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR		
CC	response in the patient and can be diagnostic of glaucoma or steroid		
CC	sensitivity. Base substitutions and base additions upstream of and within		
CC	TIGR exons can also be used to diagnose glaucoma.		
XX			
SQ	Sequence 5300 BP: 1483 A: 1152 C: 1234 G: 1431 T: 0 other:		
Query Match	99.5%;	Score 5279.6;	DB 19; Length 5300;
Best Local Similarity	99.8%;	Pred. No. 0;	
Matches 5296:	Conservative	0;	Mismatches 4; Indels 4; Gaps 1;
Qy	1	acctgtgttcagtttccccccaggcgccattatgaaatgaatgagataaaccaatgtaag	60
Db	1	accttgttcagtttccccccaggcgccattatgaaatgaatgagataaaccaatgtaag	60
Qy	61	tcctataaacctgtatagcctccacctcgatgtatgtcttcttgagagatataaagaatca	120

Db	61	tcacataactgcatagccccccactctcgatgtgcatgtctcttcttgccaggaatgataaagaatca	120
Oy	121	ggaagaaggagatccacgtttacgaagctgtccaggctgtgtctgtcccttatcttaagtga	180
Db	121	ggaagaaggagatccacgtttacgaagctgtccaggctgtgtctgtcccttatcttaagtga	180
Oy	181	cagatgtgtccctcgacaaggaagctatctcttcagggaagaacccacacgaatgtgttaatc	240
Db	181	cagatgtgtccctcgacaaggaagctatctcttcagggaagaacccacacgaatgtgttaatc	240
Oy	241	catcaaacagagagcttaagaaacaggaatgagaatgggacattgtcccaagaaagatggccag	300
Db	241	catcaaacagagagcttaagaaacaggaatgagaatgggacattgtcccaagaaagatggccag	300
Oy	301	gagagcgcaaatgataatgaaaaataaaccttccctgtttttaaattccagagaaaaatg	360
Db	301	gagagcgcaaatgataatgaaaaataaaccttccctgtttttaaattccagagaaaaatg	360
Oy	361	atggagaccacaataatcatgtataagaaacagctccagaaaaaagaatgttcccaaatg	420
Db	361	atggagaccacaataatcatgtataagaaacagctccagaaaaaagaatgttcccaaatg	420
Oy	421	taattaagtatgtgtcccttgggaagagacctccatgtgagctgaaatgggaaaatg	480
Db	421	taattaagtatgtgtcccttgggaagagacctccatgtgagctgaaatgggaaaatg	480
Oy	481	aaagctcaaaaagcgctgtgtcgtatccagatccccaagtggtatcttcttaaaacccaat	540
Db	481	aaagctcaaaaagcgctgtgtcgtatccagatccccaagtggtatcttcttaaaacccaat	540
Oy	541	ggcacaacctctgggagagcagatctcgagaaggttcattgtatagaagaaagacataacaataac	600
Db	541	ggcacaacctctgggagagcagatctcgagaaggttcattgtatagaagaaagacataacaataac	600
Oy	601	agccaaatccaatatctccgcaaatgcccgggggaaataatgggagctgaggaaacttccataac	660
Db	601	agccaaatccaatatctccgcaaatgcccgggggaaataatgggagctgaggaaacttccataac	660
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Db	661	agctaatgagcagctgtgacatctgtctgcacaacccctccgctcatatccagggaacacaaa	720
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Oy	781	gacatgtgttaaaaggaacacgaagaacttctgaaagccttcaaaacagcagatgcccctcagca	840
Db	781	gacatgtgttaaaaggaacacgaagaacttctgaaagccttcaaaacagcagatgcccctcagca	840
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Oy	901	cttgaagaagctcatgtgaatttataacatttaagataataaacaataatgagatgataataag	960
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Oy	961	cttgaagacatgtgtcccaatttataaagtcagatcatacaaggaatatacgtgtcccgctcc	1020
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Oy	1081	tgctcaatgcccttcacacacggcccgatgtgtcttgacctcaacaacacacacacacaccca	1140
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Dd	3421	agttaacctgcagcgcagcgggagagagaaaaagagagatagctatcgagcaagaag	3480
Oy	3481	acagatctcatcaagcagctgggaaattgacccaagggatlaagttccagctgactc	3540
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Dd	3841	catttcacgcagatgtcttactctctgcgattccagaataatgagactgtaacccttctgtcagct	3900
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Dd	3961	aagaaatagaactctttaagagaaaactgtgtttccacactcttggaagttggtctgcgaagc	4020
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Dd	4081	tgctcaaaagcgaatcattatttccaagtgtgcgttaaagttaactctgcagagtttgttatat	4140
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Dd	4141	ttattggtctattgacatttgcctttgttttttcttcccttgggttataatgttaagaag	4200
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Dd	4321	ctcaaaagtgttaataagaaagtaactgtgattcttgcattcccaatgaaatccagaaact	4380
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Dd	4381	cttaactctatctaaagtgtctgcagggtagcttgaaagttaaatctttataacccaaaacta	4440
Oy	4441	ctttgaaatttagacctccctcgtgattcttctttaaagctatuaataaacaagttttaa	4500

[illegible]

RESULT	6
V51367	
ID	V51367 standard; DNA: 5300 BP.
XX	
AC	V51367;
XX	
DT	27-OCT-1998 (first entry)
XX	
DE	Human TIGR promoter variant TIGRsv1 DNA.
XX	
KW	TIGR: trabecular meshwork induced glucocorticoid response protein; human; diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX	
OS	Homo sapiens.

OS Synthetic.
XX Key Location/Qualifiers
FH 4406
FT mutation /tag= a
FT /note= "Wild-type A is replaced by G"
PN M09832850-A1.
XX 30-JUL-1998.
XX
XX 09-JAN-1998; 98WO-US00468.
XX
XX 26-SEP-1997; 97US-0938669.
XX 28-JAN-1997; 97US-0791154.
XX (REGC) UNIV CALIFORNIA.
XX
XX Chen H, Chen P, Nguyen TD, Polansky JR;
PI WPI: 1998-427946/36.
XX
XX use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX
XX Disclosure: Fig 2; 105pp; English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter variant, TIGRsv1, which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX
SQ Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other;

Query Match 99.5% Score 5279.6; DB 19; Length 5300;
Best Local Similarity 99.8% Pred. No. 0;
Matches 5299; Conservative 0; Mismatches 4; Indels 4; Gaps 1;

QY 1 atcttcttcaggttaccctcagggcctattatgaaatgaaatgagataaccatgtgaaag 60
DB 1 atcttcttcaggttaccctcagggcctattatgaaatgaaatgagataaccatgtgaaag 60
QY 61 tccataaacggtatagcctccatcctgagtgatgcttcttgccagagatgataaagaatca 120
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OY 1621 taattcaaggagatctcttgggaatgggaatctgtgcaatgaagctctgtcctgaatccagag 1680
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OY 1681 caactgtctctcatcaatctctctccccaaccccaatcttcaaggtcaagttacccattatt 1740
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DB 1681 caactgtctctcatcaatctctctccccaaccccaatcttcaaggtcaagttacccattatt 1740
OY 1741 caacatgacttttggtaagccctccacatcggttaccgaaataagagtatatacaataactag 1800
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OY 1801 ttcacatttgggggacatctgtgtgtgtataggggagggagacataccccaagactcct 1860
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DB 1801 ttcacatttgggggacatctgtgtgtgtataggggagggagacataccccaagactcct 1860
OY 1861 tgaagcccccggcagagaggttctctccacgctgggggagccctgcagacacccgggtcc 1920
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Oy 5281 catccagacactctcagcagcagc 5304
Db 5277 catccagacactctcagcagcagc 5300

RESULT 7
V51361
ID V51361 standard; DNA: 5299 BP.
XX
AC V51361;
XX
DT 27-OCT-1998 (first entry)
XX
DE Human TIGR promoter region DNA.
XX
KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;
diagnosis: glaucoma; polymorphism; steroid sensitivity; ss.
XX
OS Homo sapiens.
XX
PN W09832850-A1.
XX
PD 30-JUL-1998.
XX
PF 09-JAN-1998; 98WO-0500468.
XX
PR 26-SEP-1997; 97US-0938669.
PR 28-JAN-1997; 97US-0791154.
XX
PA (RBGC) UNIV CALIFORNIA.
XX
PI Chen H, Chen P, Nguyen TD, Polansky JR;
XX
DR WPI; 1998-427946/36.
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
products for diagnosis, prognosis and treatment of glaucoma
XX
PS Claim 34; Fig 1; 105pp; English.
XX
CC This sequence is a trabecular meshwork induced glucocorticoid response
protein (TIGR) promoter region which is used in a method for diagnosing
glaucoma in a patient. The method involves the detection of polymorphisms
whose presence is predictive of a mutation affecting TIGR response in the

Oy 2041 tatgagtaactatatacttgcgacagacaccagagacaaaatgtgtgagcaaaagcagctcagc 2100
Db 2041 tatgagtaactatatacttgcgacagacaccagagacaaaatgtgtgagcaaaagcagctcagc 2100
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Oy 2461 ctcaagagggaaaggggctccacagctccagagaaattccagaggtgcgagagctgcagagag 2520
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Db 4081 tgcctcaagggcaatcattatctcaagtggtcttaagttactctcgaacagtttctgtatat 4140
Oy 4141 ttatttgctatttgccatttggttttttttttctcctcttggtggttatataatgtaaaagcag 4200
Db 4141 ttatttgctatttgccatttggttttttttttctcctcttggtggttatataatgtaaaagcag 4200
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[illegible]

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ID	V51368			
AC	V51368 standard; DNA:	6169 BP.		
XX	V51368;			
XX				
DT	27-OCT-1998	(first entry)		
XX				
DE	Human TIGR upstream region and exon 1 DNA..			
KW	TIGR: trabecular meshwork induced glucocorticoid response protein; human;			
RN	diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.			
OS	Homo sapiens.			
XX				
FH	key	location/Qualifiers		
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FT		/tag= "c"		
FT		/number= 1		
FT		/note= "partial intron sequence"		
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PD	30-JUL-1998.			
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PE	09-JAN-1998;	98WO-US00468.		
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PR	26-SEP-1997;	97US-0938669.		
PR	28-JAN-1997;	97US-0791154.		
XX				
PA	(REGC) UNIV CALIFORNIA.			
XX				
PI	Chen H, Chen P, Nguyen TD, Polansky JR;			
XX				
DR	WPI: 1998-427946/36.			
XX				
P1	Use of TIGR nucleic acid sequences - used for, e.g. developing			
PT	products for diagnosis, prognosis and treatment of glaucoma			
XX				
PS	Claim 37; Fig 3; 105pp; English.			
XX				
CC	This sequence is a trabecular meshwork induced glucocorticoid response			
CC	protein (TIGR) upstream region and exon 1. This DNA sequence can be used			
CC	in a method for diagnosing glaucoma in a patient. The method involves the			
CC	detection of polymorphisms whose presence is predictive of a mutation			
CC	affecting TIGR response in the patient and can be diagnostic of glaucoma			
CC	or steroid sensitivity. Base substitutions and base additions upstream of			
CC	and within TIGR exons can also be used to diagnose glaucoma.			
XX				
SQ	Sequence 6169 BP; 1702 A; 1389 C; 1491 G; 1587 T; 0 other:			
Query Match	99.0% Score 5253.4; DB 19; Length 6169;			
Best Local Similarity	99.8%; Pred. No. 0;			
Matches 5293; Conservative	0; Mismatches 6; Indels 6; Gaps 3			
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DB	I atcttgctcagtttaccccagcgcatatatgaatgaatgataaccaattgaaag	60		
OY	tccctaacaactgtatagctccatccgatgcgatgtatgctcttggcaggatgataagaatca	120		
DB	ttctttaaacctgtatagccctcatccatcgtatgcttccttgccaggatgataagaatca	120		

Oy	121	ggdaagaaagaglatccacglttagccaaggtgtccaggctgtctcgtctctattttagtga	180
Db	121	ggaaagaaagaaatcacccacglttagccaaggtgtccaggctgtctcgtctctattttagtga	180
Oy	121	cagatgttgccctcgagacagaagacattctctcaaggaaacctccatccaatatagtgaatc	240
Db	121	cagatgttgccctcgagacagaagacattctctcaaggaaacctccatccaatatagtgaatc	240
Oy	241	catcaaacagaggagcttcaaggaaacaggaatgaagatggagcactgtgccaaagaaatactgcag	300
Db	241	catcaaacagaggagcttcaaggaaacaggaatgaagatggagcactgtgccaaagaaatactgcag	300
Oy	301	gagagcaaatatgaatgaataataaacattctccctgtgttttaatttcaaggaaaaaatg	360
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Oy	481	aaacgctcaaaaagcattgtatctatccaaagctgaattatattttaaaaaaacagat	540
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Oy	901	ctgaaagatctcgtgaattttaaccaattttaagataaaacaatatgcgaatgataatacag	960
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Qy	1441	gtttacacataattggcccgctgctcttgaaacctcgacctaggtgatacccaacctc	1500
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[illegible]

PN WO9951779-A2.
XX
XX 14-OCT-1999.
PD
XX
XX 07-APR-1999; 99WO-US07671.
PF
XX 07-APR-1998; 98US-0056285.
PR
XX
XX (IOWA) UNIV IOWA RES FOUND.
PA
XX
XX Stone EM, Sheffield VC, Alward WLM, Fingert J;
PI
XX WPI: 2000-022956/02.
DR
XX
XX Determination of a predisposition to gliucoma by analysing mutations in
PT the GLCIA gene -
XX
XX
XX
PS Disclosure: Fig 1A; 137pp; English.
XX
XX The invention relates to a method for the determination of a
CC predisposition to gliucoma. The method comprises amplifying a GLCIA gene
CC with a primer pair selected from the sequences shown in 237981-238008.
CC The primers are used to determine whether a subject has or has the
CC potential to develop primary open wide angle gliucoma. The present
CC sequence represents the human GLCIA gene exon 1 and flanking sequences.
XX
XX Sequence 2800 BP; 781 A; 588 C; 673 G; 758 T; 0 other;

Query Match	34.6%	Score 1836:	DB 21:	Length 2800:
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DB 60	tcaagggcagtgaggatgacacacagggatataagttccacgtgatccctgggtttcaggag	119		
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DB 120	gcaaggcctatatctggggggggaaaaaacagttcaagggaagtcggggagacctgtttct	179		
OY 3611	aatactataatttcctcttaccacagctctgagtaattctctggacaagtcacaaagtagtaactg	3670		
DB 180	aatactataatttcctcttaccacagctctgagtaattctctggacaagtcacaaagtagtaactg	239		
OY 3671	aggcgttaagatatacttggtttcttccctatatgggaacctttttcttcgttgagttaggaa	3730		
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OY 3731	gcacaaggccaatcccggttcttcttcaacagagaagaaacatctccaagagtaagccaaa	3790		
DB 300	gcacaaggccaatcccggttcttcttcaacagagaagaaacatctccaagagtaagccaaa	359		
OY 3791	cagattcaagcctcaggtcctctgcgactatagatgtgttttttgaaaaaatcatctcaagc	3850		
DB 360	cagattcaagcctcaggtcctctgcgactatagatgtgttttttgaaaaaatcatctcaagc	419		
OY 3851	atgtttactatcttggtttcagaagaaagaaacagtaacccctttgttcagcctgtataacaaaca	3910		
DB 420	atgtttactatcttggtttcagaagaaagaaacagtaacccctttgttcagcctgtataacaaaca	479		
OY 3911	cccatcttgaatgtcctcaagttccaggttlaacttcagaaaccaatcaaatagaataga	3970		
DB 480	cccatcttgaatgtcctcaagttccaggttlaacttcagaaaccaatcaaatagaataga	539		
OY 3971	tcttaaggcaaacctggtttcttccacctcgtgaagtggtctgcgcaaggcagttggaaa	4030		
DB 540	tcttaaggcaaacctggtttcttccacctcgtgaagtggtctgcgcaaggcagttggaaa	599		

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OY 4031 taattcttcacagatctgacacgtctgtgtgtatataacacataaagtctgccaag 4090
    |||
DB 600 taattcttcacagatctgacacgtctgtgtgtatataacacataaagtctgccaag 659
OY 4091 caatcatatctcaagctgacataaagctacatctgcagacgtctgtatattatgcta 4150
    |||
DB 660 caatcatatctcaagctgacataaagctacatctgcagacgtctgtatattatgcta 719
OY 4151 tggcattctgcttttcttctctctctctctctctctctctctctctctctctctct 4210
    |||
DB 720 tggcattctgcttttcttctctctctctctctctctctctctctctctctctctct 779
OY 4211 cctacagctccagaagaagcctgctgaattgaaatggaagaaataacgcttttattacc 4270
    |||
DB 780 cctacagctccagaagaagcctgctgaattgaaatggaagaaataacgcttttattacc 839
OY 4271 acccttaacataaatttaacatttattccattgagaaatagagccataaaccnaagtg 4330
    |||
DB 840 acccttaacataaatttaacatttattccattgagaaatagagccataaaccnaagtg 899
OY 4331 taataagaatctgtgattgttcttcttcttcttcttcttcttcttcttcttcttct 4390
    |||
DB 900 taataagaatctgtgattgttcttcttcttcttcttcttcttcttcttcttcttct 959
OY 4391 ttaacagctgtgagagtaagctgtaagtgaaatattatactcaaaactacttgaaatt 4450
    |||
DB 960 ttaacagctgtgagagtaagctgtaagtgaaatattatactcaaaactacttgaaatt 1019
OY 4451 agacccctcgtgagacgtctgttttaacataataaacaatgcttaaaatttgat 4510
    |||
DB 1020 agacccctcgtgagacgtctgttttaacataataaacaatgcttaaaatttgat 1079
OY 4511 ttggaataatcatattcatattcatattgttcttcttcttcttcttcttcttcttct 4570
    |||
DB 1080 ttggaataatcatattcatattcatattgttcttcttcttcttcttcttcttcttct 1139
OY 4571 aaacacattctctgagaagaagctcccaagattccacaaatagagttctctgacatgcaca 4630
    |||
DB 1140 aaacacattctctgagaagaagctcccaagattccacaaatagagttctctgacatgcaca 1199
OY 4631 cacagagtaagaatctgaattagaagcttaacatgacattgtgtcctgagatgcagaact 4690
    |||
DB 1200 cacagagtaagaatctgaattagaagcttaacatgacattgtgtcctgagatgcagaact 1259
OY 4691 aaatttgaaagctctcccaagaatatacagaattgttttaagaagctgaggggggaaa 4750
    |||
DB 1260 aaatttgaaagctctcccaagaatatacagaattgttttaagaagctgaggggggaaa 1319
OY 4751 tctgcgctctctataagaatgctctccctgagacctgtaaggtgctgctgtcttct 4810
    |||
DB 1320 tctgcgctctctataagaatgctctccctgagacctgtaaggtgctgctgtcttct 1379
OY 4811 ggcctgacgttatttctctctctctctctctctctctctctctctctctctctct 4870
    |||
DB 1380 ggcctgacgttatttctctctctctctctctctctctctctctctctctctctct 1439
OY 4871 ttcctgcaagaagctgagacagctgagagttcttcaatgagtttgcagaatgaaatgaaa 4930
    |||
DB 1440 ttcctgcaagaagctgagacagctgagagttcttcaatgagtttgcagaatgaaatgaaa 1499
OY 4931 taataagctagaatatactctctgtaaaatcacagacacacagtagctctgtgtaagtgt 4990
    |||
DB 1500 taataagctagaatatactctctgtaaaatcacagacacacagtagctctgtgtaagtgt 1559
OY 4991 tgaacgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5050
    |||
DB 1560 tgaacgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1615
OY 5051 cttatttttgggtgataaggtgataaatttgagatgttcttttaaaagaaactcccaaca 5110
    |||
DB 1616 cttatttttgggtgataaggtgataaatttgagatgttctttttaaagaaactcccaaca 1675
OY 5111 gactctgagagcttaattcttaagaatctctgtgagagctgaagcaaacccctgtg 5170

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DB 1676 gactctgagagcttaattcttaagaatctctgtgagagctgaagcaaacccctgtg 1735
    |||
OY 5171 cacagcccaacccagcctcaagctgtgacacctctgtcttccccaatgaaggtgctccc 5230
    |||
DB 1736 cacagcccaacccagcctcaagctgtgacacctctgtcttccccaatgaaggtgctccc 1795
OY 5231 cagtatataaaccctctcgtgagctcgggcatgagccagcaagccacccatccaggcca 5290
    |||
DB 1796 cagtatataaaccctctcgtgagctcgggcatgagccagcaagccacccatccaggcca 1855
OY 5291 cctctcagcacagc 5304
    |||
DB 1856 cctctcagcacagc 1869

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RESULT 10
Q63862/c
ID Q63862 standard; cDNA; 283 BP.
XX
AC Q63862;
XX
DT 29-JAN-1995 (first entry)
XX
DE AP2 sequence obtd. by PCR for tumour specific DNA.
XX
KW Arbitrary primers; AP-PCR; amplification; tumour cells; cancer;
KW insertions; deletions; ss.
OS Synthetic.
XX
PN WO9411531-A.
XX
PD 26-MAY-1994.
XX
PF 12-NOV-1993: 93WO-US10904.
XX
PR 13-NOV-1992: 92US-0975737.
XX
PA (CALB-) CALIFORNIA INST BIOLOGICAL RES.
PI Ionov Y, Malkhosyan S, McClelland M, Pelinado MA;
PI Perucho M, Welsh J;
PI XX
DR MPI: 1994-183529/22.
XX
PT Identification of tumour cells - by analysing DNA to determine
PT whether insertions or deletions have occurred in reiterated
PT sequences
XX
PS Disclosure: Page 52; 67pp: English.
XX
CC The sequence was obtd. by PCR with arbitrary PCR primers used to
CC detect insertions or deletions in DNA sequences. Such mutations are
CC markers of cancer so such primers can be used in the diagnosis of
CC cancer, esp. colorectal, stomach or pancreatic tumours.
CC See also Q63837-63.
XX
SQ Sequence 283 BP; 63 A; 77 C; 94 G; 49 T; 0 other:

```

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Query Match 3.3%; Score 176.4; DB 15; Length 283;
Best Local Similarity 80.4%; Pred. No. 2.9e-31;
Matches 222; Conservative 0; Mismatches 46; Indels 8; Gaps 1;

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OY 1281 gggctgaaggtctgtcttaccctacatctgatagtcttaccatgagctcactgcaact 1340
    |||
DB 276 GAGTCGCGCTGTCGCGCCAGGCTGAGTCAGTGGCGGCGATCTCGGCTCATGCAACT 217
OY 1341 ctgcctccaggttcaagaatctctctgtctcagcctcccgctgagctgagactcaagg 1400
    |||
DB 216 CCACCTCCCGGGTTCAAGCATTCCTGCTCAGGCTCCGAGTAGCTGGATTACAGG 157

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OY 1401 CG-----caagccgcgcctaattttctatgtatgaagataggggtttacacat 1452
 Db 156 CCGCGGCCACCCAGCCCGGCTAATTTTGTATTTTATGATGAGACGGGGTTTACACTGT 97
 OY 1453 tagccgcgttgcctgtaacctctgaacctgaagtgatccaccacctcaagcctctaaag 1512
 Db 96 TCGCCAGCGCTGGTCTTGAACTCCTGACCTCAGGTGATGCCACCACACCTCGGCTCCANAAG 37
 OY 1513 tgcctggattacaagcatgaatcaccgcgcgcgcgc 1548
 Db 36 Tcctggattacagctgtgagccaccacgcgcgc 1

 RESULT 11
 ID 286967/c
 XX 286967 standard; DNA; 162450 BP.
 AC 286967:
 XX
 DT 16-MAY-2000 (first entry)
 XX
 DE Retinoblastoma binding protein-7 genomic DNA sequence.
 KW RBP-7; retinoblastoma binding protein-7; abnormal cell proliferation;
 KW diagnosis; therapy; cell differentiation; thyroid hyperplasia; psoriasis;
 KW benign prostate hypertrophy; cancer; sarcoma; neoplasm; leukemia;
 KW lymphoma; ds.
 XX
 OS Homo sapiens.
 PN WO200000607-A1.
 PD 06-JAN-2000.
 XX
 PF 30-JUN-1999; 99WO-1B01242.
 XX
 PR 30-JUN-1998; 98US-0091315.
 PR 10-DEC-1998; 98US-0111909.
 PA (GEST) GENSET.
 PI Bougueleret L.
 XX
 DR WPI: 2000-117170/10.
 XX
 PT Novel nucleic acid and polymorphic markers used for diagnosis of
 PT diseases, especially those involving abnormal cell proliferation and
 PT differentiation -
 PS
 PS Claim 1: Page 118-163; 223pp; English.
 XX
 CC This sequence represents the retinoblastoma binding protein-7 (RBP-7)
 CC genomic sequence of the invention. The RBP-7 coding sequence and
 CC regulatory sequences are useful for the recombinant production of the
 CC protein and for expressing heterologous nucleic acids. Primers and probes
 CC derived from the RBP-7 nucleotide sequence (e.g. 287035-287109) are
 CC useful for DNA amplification and detection methods. RBP-7 biallelic
 CC markers (see 286963-287034) are useful for diagnosis of disease related
 CC to alteration in the regulation or in the coding regions of the RBP-7
 CC gene and for prognosis/diagnosis of an eventual treatment with
 CC therapeutic agents, especially agents acting on pathologies involving
 CC abnormal cell proliferation and/or differentiation, these include
 CC thyroid hyperplasia, psoriasis, benign prostate hypertrophy, cancers,
 CC including breast cancer, sarcoma and other neoplasms, bladder cancer,
 CC colon cancer, lung cancer, prostate cancer, various leukemias, and
 CC lymphomas. RBP-7 antibodies are useful as diagnostic agents.
 XQ Sequence 162450 BP; 45465 A; 30661 C; 32637 G; 53673 T; 14 other:

[illegible]

• • Mon Dec 4 08:51:37 2000

X2

SQ Sequence 452 BP; 149 A; 92 C; 106 G; 85 T; 20 other;

Query Match	3.3%	Score 172.8	DB 17	Length 452
Best Local Similarity	85.4%	Pred. No. 2.3e-30		
Matches 204	Conservative	1	Mismatches 23	Indels 8
				Gaps 1

Oy	1321	accgagactacatgcaacccctctgcccacaggtgtaagaatcttcctcgtcccaacgcc	1380
Db	312	atctcacactcacgtcaaacctctcctccacaggttcaacggattctctccctcacactcc	253
Oy	1381	cgcgtacgtcggagactacaagcgcg-----cacgcgcgcgtaatcttgtagttagta	1432
Db	252	cgattacgtgggatttacagctgcccgccacacatgcccggcgtattttgtatttttagta	193
Oy	1433	gagatggggtttcaacatattagcccgctctgtctctgaaactccgaactcaagtgatcca	1482
Db	192	gagacgggggtttacccacgctggccacagcgctgggtctcaaaactctgacctcacagctatctg	133
Oy	1493	ccacaccccaagccctccaaatgtctgggattaaaggaataagtcacacgcgcgcgcgcgc	1548
Db	132	ccccctctacgctcccaaatgctgggaatttacagcagcatagccaccccccgcgcgc	77

Search completed: December 3, 2000, 19:26:40
Job time: 43260 sec

